

## REMARKS

In the Official Action mailed on **16 August 2006**, the Examiner reviewed claims 1-7, 9-11, 13-21, 23-25, 27-35, 37-39, 41, and 42. Claims 1-3, 9-11, 13, 15-17, 23-25, 27, 29-31, 37-39, and 41 were rejected under 35 U.S.C. §103(a) as being unpatentable over Michael (*High Performance Dynamic Lock-Free Hash Tables and List-Based Sets*, hereinafter “Michael”) in view of applicants’ admitted prior art (hereinafter “AAPA”), and further in view of Schimmel (USPN 5,960,434 hereinafter “Schimmel”). Claims 4-5, 18-19, and 32-33 were rejected under 35 U.S.C. §103(a) as being unpatentable over Michael in view AAPA, in view of Schimmel, and further in view of Rakity et al (USPN 5,671,446, hereinafter “Rakity). Claims 6, 20, and 34 were rejected under 35 U.S.C. §103(a) as being unpatentable over Michael, in view of AAPA, Schimmel and further in view of Hills (USPN 6,654,773, hereinafter “Hills”). Claims 7, 21, and 35 were rejected under 35 U.S.C §103(a) as being unpatentable over Michael, in view of AAPA, in view of Schimmel, and further in view of Blaker et al (USPub 2001/0042204, hereinafter “Blaker”). Claims 14, 28, and 42 were rejected under 35 U.S.C. §103(a) as being unpatentable over Michael, in view of AAPA, in view of Schimmel, and further in view of Douccour (USPN 6,067,547, hereinafter “Douccour”).

### Rejections under 35 U.S.C. §103(a)

Independent claims 1, 15, and 29 were rejected as being unpatentable over Michael, in view of AAPA, and further in view of Schimmel. Applicant respectfully points out that the combined system of Michael, AAPA, and Schimmel teaches **adding a pointer to the new buckets which point to the old buckets**, and then rehashing the data records over time (see Schimmel, col. 7, lines 56-64).

In contrast, the present invention **directly copies the old buckets into the top half of the new bucket array** (see FIG. 2C and paragraphs [0043]-[0049] of the instant application). This is beneficial because it does not require the subsequent rehashing of the data records. There is nothing within Michael, AAPA, or Schimmel, either separately or in concert, which suggests directly copying the old buckets into the top half of the new bucket array.

Accordingly, Applicant has amended independent claims 1, 15, and 29 to clarify that the present invention directly copies the old buckets into the top half of the new bucket array. These amendments find support in FIG. 2C and in paragraphs [0043]-[0049] of the instant application

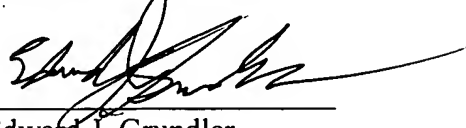
Hence, Applicant respectfully submits that independent claims 1, 15, and 29 as presently amended are in condition for allowance. Applicant also submits that claims 2-7, 9-11, and 13-14, which depend upon claim 1, claims 16-21, 23-25, and 27-28, which depend upon claim 15, and claims 30-35, 37-39, and 41-42, which depend upon claim 29, are for the same reasons in condition for allowance and for reasons of the unique combinations recited in such claims.

**CONCLUSION**

It is submitted that the present application is presently in form for allowance. Such action is respectfully requested.

Respectfully submitted,

By

  
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